

**EAST GOSHEN MUNICIPAL AUTHORITY**

**November 4, 2019**

**7:00 PM**

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE/MOMENT OF SILENCE

- a. Ask if anyone will be taping the meeting

2. CHAIRMAN'S REPORT/OTHER MEMBERS REPORTS

3. SEWER REPORTS

- a. Director of Public Works Report.
- b. Pennoni Engineer's Report.
- c. Big Fish Environmental Report.

4. APPROVAL OF MINUTES

- a. September 9, 2019 ( was not approved last month)
- b. October 14, 2019

5. APPROVAL OF INVOICES

Pennoni Invoice #883971	\$	799.75
Pennoni Invoice #883972	\$	1,181.75
Pennoni Invoice #883973	\$	5,196.86
Pennoni Invoice #879980	\$	7,314.89
Gawthrop Invoice #214579	\$	440.00 Pd. 9/10/19

6. LIAISON REPORTS

7. FINANCIAL REPORTS

- a. October Financial Report

8. OLD BUSINESS

- a.

9. GOALS

- a. Continue to monitor the upgrades at West Goshen Sewer Plant. Members have been attending meetings.
- b. Continue to implement the I&I Plan – on-going
- c. Continue to run the plant to DEP permit requirements

10. NEW BUSINESS
  - a. Grants Available for Water and Sewer Projects
  - b. 2020 Fees for Legal Services, Gawthrop Greenwood, PC
11. CAPACITY REQUESTS
12. ANY OTHER MATTER
13. CORRESPONDENCE AND REPORTS OF INTEREST
14. PUBLIC COMMENT
15. ADJOURNMENT
16. **EXECUTIVE SESSION**

EAST GOSHEN MUNICIPAL AUTHORITY  
EAST GOSHEN TOWNSHIP  
1580 PAOLI PIKE, WEST CHESTER, PA 19380-6199

November 1, 2019

To: Municipal Authority  
From: Mark Miller  
Re: October 2019 Monthly Report

**Monthly Flows:** The average daily flow to West Goshen was 640,000 per day.

**Meters:** The meters were read on a daily basis with no problems to report

**C.C. Collection:** The pump stations were visited on a daily basis. Routine maintenance was performed at the pump stations. We have been using the new camera, we are still getting used to the different features. We did get a call for a blocked lateral on Linden Lane, we will need to replace a section of pipe.

**R.C. Collection:** The pumping stations were visited on a daily basis. We are getting calls about missing sewer caps which we are replacing as the calls come in. We responded to two sewer back-ups for the month. Both of them were cleared by the Public Works Department.

**R.C. Plant:** I have been staying in contact with the operator on a daily basis. Our men have been performing maintenance as needed. The flow meter is still out for repair and calibration. The valves have been ordered for the SBR's once they arrive they will be installed.

**Alarms:** We responded to 22 alarms for October, most of them were for loss of power.

**PA One Calls:** We responded to over 64 PA One Calls for the month of October.

**Monthly Rainfall:** 2.5 inch's for the month of October.



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**EAST GOSHEN MUNICIPAL AUTHORITY**  
**ENGINEER'S REPORT**  
November 1, 2019

**Invoices**

- Invoices with summaries are provided under separate cover.

**Ridley Creek Sewage Treatment Plant (RCSTP)**

- *Generator Replacement* – We performed a field visit to further evaluate site conditions associated with the proposed replacement of the existing Spectrum Detroit Diesel “Generator 1”. In order to re-use conduit, we are evaluating rotating the location of the existing pad 90 degrees since the footprint of the new generator is larger and will conflict with existing conduits. We are also evaluating the need to replace the existing Automatic Transfer Switch. Once the generator is ordered, there is a 4-month lead time to acquire it.
- *SBR Tank #3 Inspection* – We will perform a visual structural evaluation of Tank #3 once that tank is taken back offline again. The inspection was scheduled for October, but Tank #3 had to be put back online prior to the inspection on short notice due to valve problems within Tank #2 that necessitated Tank #2 be drained for repairs. We took that opportunity to perform a re-inspection of Tank #2 as described below.
- *SBR Tank #2 Inspection* – We performed a visual structural evaluation of the tank’s concrete and coatings on October 11. This tank was also inspected last year so this assessment evaluated whether any notable, rapid changes are occurring. A summary report will be issued prior to the November MA meeting.

**Barkway Pump Station Grinder**

- No activity since our last report. The Muffin Monster manhole and equipment was delivered to the Township in late May.

**Tallmadge Drive Sewer Main Replacement**

- The 2-year maintenance bond period ends March 21, 2021.

**I&I Support and Reporting**

- We provided recommendations for locations for the next round of pipe televising and pipe lining.

**New Connections**

- We performed oversight during construction of the low-pressure force main lateral for the proposed new home at 204 Line Road (Dixon property). The force main has been completely installed via directional drilling (including across the creek and pipeline), and the connection to the Township’s sewer manhole has been made. The remaining pipe-related work is to install flushing connections and pressure test the piping, which we expect to occur by mid-November. The grinder pump is expected to be installed at a later date when the house is built.



**Hershey's Mill Pump Station Generator Replacement**

- We performed a field visit to document the existing electrical conditions in the station, and we continued with preparation of site and electrical construction plans. It appears that the existing generator may need to be removed from inside the building to meet code separation distances from new equipment. Further evaluation and considerations for removal are underway.

**Permanent Flow Meter Manholes**

- The two permanent flow meter manholes and equipment are planned to be constructed in 2020 by Public Works. We will obtain new vendor cost quotations once a timeframe for construction is determined since the quotes are only valid for 30-60 days.

END OF REPORT



**RCSTP Monthly Operations  
Report:  
November 2019**

### Executive Summary

The Ridley Creek sewage treatment plant outfalls 001 and 002 achieved compliance with the permit discharge limitations for the month of September 2019, with the exception of total phosphorus. Discharge to the Applebrook irrigation lagoon was initiated on September 7, 2019. Chemical usage utilized for pH and total alkalinity remained consistent with previous months. An increase in aluminum sulfate solution was increased during the month to assist with the elevated total phosphorus concentrations in the post flow equalization tanks and final effluent. Malfunctioning of the actuator for SBR 2 effluent and decanter pressure relief valves required the removal of SBR 2 from service. No significant mechanical or operational issues were observed during operation of sludge dewatering equipment or SBR treatment process.

### Treatment Process Operation

Table 1 illustrates the final effluent composite sample data reported for outfall 001 for the September 2019 DMR.

**Table 1**

<b>September 2019- Final Effluent - Outfall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	Average	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
September 3, 2019	0.314	2.0	5.2	8	21.0	0.161	0.42	0.88	2.30	3	0.4771
September 10, 2019	0.238	3.5	6.9	6	11.9	0.100	0.20	0.31	0.62	1	0.0000
September 17, 2019	0.166	2.3	3.2	6	8.3	0.100	0.14	0.53	0.73	1	0.0000
September 24, 2019	0.161	2.0	2.7	6	8.1	0.167	0.22	0.44	0.59	1	0.0000
Average	0.220	2.5	4.5	7	12.3	0.132	0.25	0.54	1.06		0.1193
Minimum	0.161	2.0	2.7	6	8.1	0.100	0.14	0.31	0.59	1	0.0000
Maximum	0.314	3.5	6.9	8	21.0	0.167	0.42	0.88	2.30	3	0.4771

The biological treatment process performed well during September, however, an equipment failure with SBR 2 contributed to excessive suspended solids



**RCSTP Monthly Operations  
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accumulating into the post flow equalization tanks resulting with excessive solids loading into the disc filters. The elevated suspended solids concentrations in the post flow equalization tanks adversely

A supplemental report detailing the troubleshooting, corrective actions and root cause for the elevated final effluent total phosphorus concentrations was provided as a separate document, however, is also included with this report. Also included is an October 24, 2019 email from the certified laboratory, ALS, providing notice that due to instrumentation problems, total phosphorus sample test results are being delayed.

Discharge to the Applebrook irrigation lagoon, outfall 002, commenced on September 7<sup>th</sup>. Table 2 illustrates the final effluent composite sample data reported for outfall 002 for the September 2019 DMR.

September 2019 - Applebrook - Out Fall 002											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
		40		42							
September 3, 2019											
No Discharge											
September 10, 2019	0.060	2.0	1.0	8.0	4.0	0.161	0.08	0.88	0.44	3	0.4771
September 17, 2019	0.156	3.5	4.5	6.0	7.8	0.100	0.13	0.31	0.40	1	0.0000
September 24, 2019	0.149	2.0	2.5	6.0	7.5	0.167	0.21	0.44	0.55	1	
Average	0.122	2.5	2.7	6.7	6.4	0.143	0.14	0.54	0.46	2	0.2386
Minimum	0.060	2.0	1.0	6.0	4.0	0.100	0.08	0.31	0.40	1	0.0000
Maximum	0.156	3.5	4.5	8.0	7.8	0.167	0.21	0.88	0.55	3	0.4771

The influent wastewater pollutant concentrations and loading entering the wastewater treatment facility remained within the design concentration and organic loading values, however, the average concentrations are slightly higher than historical averages. Review of the sample tubing condition (cleanliness) and





**RCSTP Monthly Operations  
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position of intake suction tubing will be reviewed so the suction intake is positioned mid-stream of the influent wastewater flow.

Table 3 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during September 2019.

**Table 3**

<b>September 2019 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
Sample Date											
September 3, 2019	0.463	233	899	208	802	43.8	169	48.5	187	6.8	26.2
September 10, 2019	0.440	162	625	120	463	39.9	146	39	143	5.6	20.5
September 17, 2019	0.443	310	1,196	213	822	31.8	117	113.0	417	3.5	12.9
September 24, 2019	0.445	327	1,261	278	1,072	30.8	114	63.4	235	6.1	22.6
Average	0.448	258	995	205	790	36.6	137	66.0	246	5.5	20.6
Minimum	0.440	162	625	120	463	30.8	114	38.9	143	3.5	12.9
Maximum	0.463	327	1,261	278	1072	43.8	169	113.0	417	6.8	26.2

The monthly data for the month of October was finalized on November 1, 2019 with the recording of the daily meter and equipment run time readings. This information is reviewed prior to inclusion within the monthly O&M report. The information for the month of October is incomplete and includes the available sample test results from the certified laboratory. RCSTP is anticipated to be in full compliance with all permitted discharge limitations for the month of October.

Table 4 illustrates the available data for the final effluent composite sample data reported for outfall 001 for use with the October 2019 DMR.



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**Table 4**

<b>October 2019- Final Effluent - Outfall 001</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	10	131	2.5	44	0.5	3	200	1,000
		40		42							
Sample Date											
October 1, 2019		2.0		4		0.102		0.44		1	0.0000
October 6, 2019								0.12			
October 8, 2019		2.0		6		0.132		0.18		1	0.0000
October 15, 2019		2.0		6		0.227		0.27		1	0.0000
October 22, 2019											
October 29, 2019											
Average		2.0		5		0.154		0.25			0.0000
Minimum		2.0		4		0.102		0.12		1	0.0000
Maximum		2.0		6		0.227		0.44		1	0.0000

Sequencing batch reactors (SBRs) numbered 1, 3 and 4 were in service during July. SBR 3 was removed from service during August and SBR 2 placed into service. Process monitoring of each SBR included ammonia as N, nitrite as N, Nitrate as N, COD, SSV, MLSS and total phosphorus. Daily analysis of the final effluent flow equalization grab sample for total phosphorus is ongoing. Sample collection and analysis of the influent wastewater collected at the influent pump station wet well is ongoing.

The foam on the SBR surface was observed to decrease slightly to approximately 0 to 30% coverage of the surface area. The foam thickness is approximately 3 to 4 inches with a light to medium brown color. The warmer water temperatures combined with increasing the F:M ratios to 0.06 and the rainfall during June and July have assisted to reduce the foam concentrations.

Discharge to the Applebrook irrigation lagoon, outfall 002, continued during the month of October. Table 5 illustrates the final effluent composite sample data reported for outfall 002 for the October 2019 DMR.



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November 2019**

**Table 5**

<b>October 2019 - Applebrook - Out Fall 002</b>											
NPDES Permit Discharge Limitations	Flow	CBOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		Phosphorus, Total , mg/L		Fecal Coliform	
	MGD Average	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	mg/L	lbs/ month	Geo Mean	Geo Mean
	0.75	20	125	21	131	7	44	0.5	3	200	1,000
		40		42							
October 1, 2019		2.0		4		0.102		0.44		1.000	0.000
October 6, 2019								0.12			
October 8, 2019		2.0		6		0.132		0.18			
October 15, 2019		2.0		6		0.227		0.27		1	0.0000
October 22, 2019										0	0.0000
October 29, 2019											
Average		2.0		6		0.227		0.27		1	0.0000
Minimum		2.0		6		0.227		0.27		0	0.0000
Maximum		2.0		6		0.227		0.27		1	0.0000

The influent organic loadings remain below those of the influent design loadings. Table 6 presents the available pollutant data for the influent wastewater collected at the doghouse manhole during October 2019

**Table 6**

<b>October 2019 - Influent Wastewater</b>											
Design Basis	Flow	BOD <sub>5</sub>		TSS		NH <sub>4</sub> -N		TKN, mg/L		Phosphorus, Total, mg/L	
		mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day	mg/L	lbs/day
	MGD Average	335	2,098	320	2,001	32	200	48	301	9.1	57
	Sample Date										
October 1, 2019		380	0	378	0	34.1	0	57.3	0	9.8	0.0
October 8, 2019		335	0	283	0	42.8	0	56	0	7.6	0.0
October 15, 2019		218	0	240	0	37.8	0	46	0	6.2	0.0
October 22, 2019											
October 29, 2019											
Average	#DIV/0!	311	0	300	0	38.2	0	53.0	0	7.9	0.0
Minimum	0.000	218	0	240	0	34.1	0	45.9	0	6.2	0.0
Maximum	0.000	380	0	378	0	42.8	0	57.3	0	9.8	0.0





**RCSTP Monthly Operations  
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**PA DEP**

No activity

**Minor Preventative Maintenance**

Flushed chemical feed lines to the SBRs.  
Cleaned final effluent weir trough daily  
Skimmed surface of disc filters daily  
Drained and cleaned disc filters bi-weekly  
Cleaned buildings and laboratory

Elizabeth M. Parker <elizabethm.parker@alsglobal.com>

10/24/2019 3:56 PM

rush phosphorus

To scott\_towler@comcast.net <scott\_towler@comcast.net>

Good Afternoon Scott,

Our laboratory has been having issues with our phosphorus instrumentation which is causing delayed turnarounds. I have asked the lab to confirm if they can have it completed tomorrow and will let you know tomorrow.

Kind Regards,

**Elizabeth Parker**  
Project Manager, Environmental  
USA



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**Supplemental Report:  
Final Effluent Total  
Phosphorus Concentrations  
for August and September  
2019**

## **Executive Summary**

The Ridley Creek Sewage Treatment Plant (RCSTP) reported non-compliance for outfall 001 for the month of August 2019 and outfalls 001 and 002 for the month of September 2019 for the total phosphorus permitted discharge limitation. The permitted discharge concentration is 0.5 mg/L. The concentrations reported for outfall 001 were 0.58 mg/L and 0.54 mg/L, respectively. The concentrations for outfall 002 was 0.54 mg/L. The root cause contributing to the elevated total phosphorus concentrations equipment was determined to be equipment failure, however, factors such as in-house sample test results, certified contract lab test results, chemical deliveries and efforts to identify the mechanical problem contributed to achieving compliance with the required discharge concentration. As of October 15<sup>th</sup>, the average discharge concentration of 0.25 mg/L for total phosphorus is within the permitted discharge concentration of 0.5 mg/L.

## **RCSTP Sequencing Batch Reactors (SBRs)**

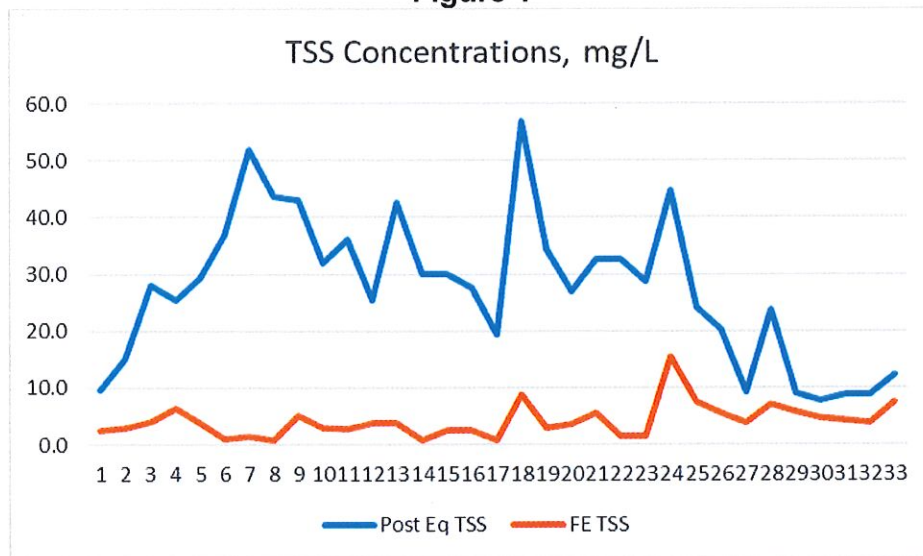
The RCSTP wastewater treatment and disposal facility is comprised of four (4) SBRs, each with an average daily hydraulic loading of 187,500 gallons per day. The treatment cycle for each SBR is a fixed six (6) hours, resulting in four (4) "batches" per day. The influent fill cycle is two (2) hours or the high-water level within the tank, whichever occurs first. During periods when influent flows impact the defined treatment process, the SBR(s) in the decant cycle will enter a filled decant cycle. This allows for influent wastewater to enter at the bottom of the tank and clear effluent to discharge from the decanter. When this condition is experienced for a prolonged time, ie. Intense storm with a long duration, total suspended solids (TSS) may accumulate in the post flow equalization tanks. The effluent is filtered and disinfected prior to discharge.

## **Plant Operations**

The month of July 2019 experienced more intense storms and a higher than typical amount of precipitation. There were five (5) storms having precipitation of one (1) inch or greater within 24 hours and a total of 11.42 inches for the month. As a result, the post equalization flow tanks contained elevated suspended solids concentrations, however, without impacting achieving compliance with the discharge permit. This condition is typical when the plant receives excessive amounts of rainfall. The month of August experienced conditions significantly different from July, measuring only one (1) storm resulting in 1.21 inches for 24 hours and 2.34 total inches of precipitation for the month. The TSS concentrations remained elevated as compared to typical operations. This generally doesn't cause too much concern as

the TSS concentrations become diluted with the clear effluent from the SBRs. Periodically, the post flow equalization basins are drained and cleaned to accelerate the process of removing solids and foam from the tanks. Figure 1 illustrates the elevated TSS concentrations discharged from the post equalization flow tanks and TSS concentrations for the final effluent from July 1<sup>st</sup> through September 30<sup>th</sup>. The continued presence of elevated TSS concentrations in the post equalization flow tanks corresponds to the elevated total phosphorus concentrations during August and September 2019.

**Figure 1**



### Initial Troubleshooting Efforts

Troubleshooting efforts of the biological process were initiated on August 29th with the receipt of the August 13th total phosphorus sample result. The plant compliance was believed to comply since the last sample in July and first sample in August were complying. In addition, the in-house sample tests were consistent with the certified laboratory during July and early August, therefore there was no “red flags” suggesting total phosphorus was becoming an issue. Unfortunately, the July 13th inhouse sample test result was much lower in concentration of the test result from the laboratory used for compliance reporting. Table 1 illustrates the difference in concentrations for total phosphorus reported by the RCSTP in-house laboratory as compared to the ALS certified laboratory.





**Supplemental Report:  
Final Effluent Total  
Phosphorus Concentrations  
for August and September  
2019**

**Table 1**

Total Phosphorus, mg/L				
Sample Date	RCSTP Lab	ALS - Certified Lab	Difference	Relative Percent Difference
2-Jul	0.260	0.26	0.00	0%
9-Jul	0.237	0.24	0.00	-1%
16-Jul	0.173	0.22	-0.05	-24%
23-Jul	0.932	0.14	0.79	148%
30-Jul	0.250	0.11	0.14	78%
6-Aug	0.391	0.32	0.07	20%
13-Aug	0.396	0.61	-0.21	-43%
20-Aug	0.655	0.69	-0.03	-5%
27-Aug	0.695	0.71	-0.02	-2%
3-Sep	0.753	0.88	-0.13	-16%
10-Sep	0.279	0.31	-0.03	-11%
17-Sep	0.499	0.53	-0.03	-6%
24-Sep	0.444	0.44	0.00	1%
Average			0.04	11%
Minimum			-0.21	-43%
Maximum			0.79	148%

Initial troubleshooting including increased process monitoring of each SBR's performance with respect to settleability of the mixed liquor prior to decanting. To evaluate the SBR's sludge settleability, a settled sludge volume (SSV) test is performed on the mixed liquor on a sample collected within twenty (20) minutes of the conclusion of the React cycle. The SSV test is performed daily when a SBR is observed in the React cycle. To further evaluate the sludge settleability, measurements of the clear supernatant (clear water above the sludge blanket). This measurement is performed around fifty (50) minutes of a sixty (60) minute settle cycle. The plant operator uses a sludge pole to measure the total feet of clear supernatant above the sludge blanket. Operation of the SBR process doesn't afford the ability to collect data and measurements during the for all three (3) SBRs in one given day without extending or adjusting schedules. Operation of the centrifuge during the evenings provides the ability to collect date and measurements not available during the day. These initial efforts determined that there was no solids carryover or loss from the SBRs during the decant cycle.



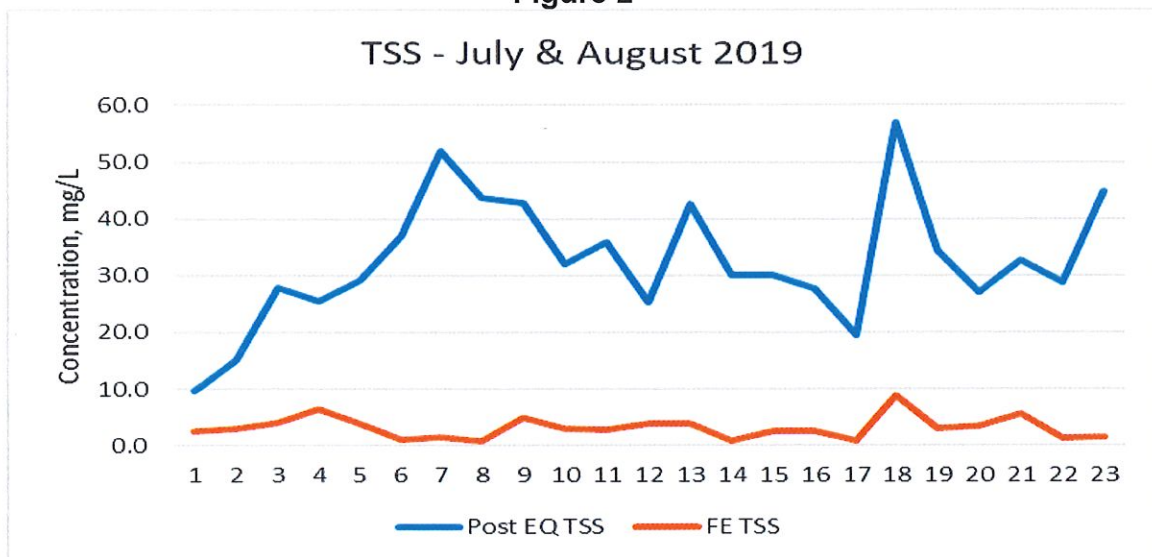
**Supplemental Report:  
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for August and September  
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In summary, the delay of sixteen (16) days upon receipt of the ALS test result for the sample collected August 13<sup>th</sup>, coupled with the unreliability of the in-house sample results delayed the response to implement corrective actions.

### **SBR Operation**

On August 9<sup>th</sup>, SBR 3 was removed from service for an annual inspection and SBR 2 was placed into service. In review of the final effluent total phosphorus data and more importantly the elevated TSS concentrations in the Post EQ tanks, it appears that placing SBR 2 in service coincided with the elevated Post EQ tank TSS during August (the elevated Post EQ TSS during July is related to the higher volumes of rainfall during July and typical lowers when the rain induced flows become lower). Figure 2 illustrates the final effluent and Post EQ Tank TSS concentrations during July and August.

**Figure 2**



The figure illustrates no decline in the Post EQ tank TSS, however, concentrations maintain those concentrations typical of solids carryover from the SBRs. As shown in figure 2, the final effluent total phosphorus concentrations increased August. Through troubleshooting and corrective actions, the phosphorus concentrations decrease to within permit discharge limitations during early and mid-October. Figure 3 illustrates the final effluent total phosphorus concentrations from August through mid-October. There is a direct relationship when TSS concentrations increase, the total phosphorus concentration will increase. The alum feed rates were increased, nearly doubling the feed rates to the SBRs. The alum feed prior to the SBRs was

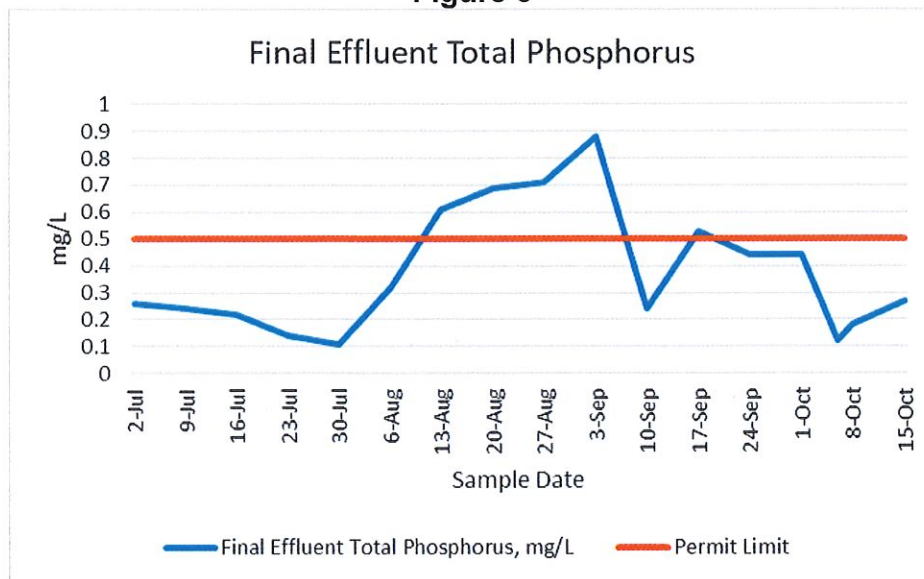




**Supplemental Report:  
Final Effluent Total  
Phosphorus Concentrations  
for August and September  
2019**

increased, however, caution is exercised not to overfeed alum into the disc filters. Overdosing alum in the disc filters could blind the filter as well as lower the final effluent pH beyond the discharge limitations.

**Figure 3**



In review of the data, troubleshooting measures and corrective actions, it is believed that the effluent valve for SBR 2 is not fully closed or seated. All SBRs are decanted clear effluent, however, there is a solids carryover into the Post EQ tanks. The plant was performing well up until SBR 2 was placed on line. The effluent valve will be evaluated and inspected to confirm it is in the fully closed position. Any adjustments will be performed. Continuing to increase the alum feed and increased cleaning of the disc filters should assist to lower the total phosphorus concentration within discharge permit limitations.

After troubleshooting the effluent valve/actuator assembly for SBR 2, it was determined to not function as intended. The valve was observed to open, however, it did not fully close. On Wednesday, September 4<sup>th</sup>, the actuator from SBR 3 was removed and installed on SBR 2. The day after, the SBR 2 decanter was observed to have been above the surface of the water level. This resulted in SBRs 1 and 4 experiencing Fill decant cycles adversely impacting the post equalization flow tank water quality. On September 7<sup>th</sup>, SBR 2 was removed from service and SBR 3 placed into service. Upon inspection of SBR 2, valves on the decanter were observed to not functioning as intended. In summary, SBR 2 is planned for an



**Supplemental Report:  
Final Effluent Total  
Phosphorus Concentrations  
for August and September  
2019**

“overhaul/replacement” of equipment. The history of SBR 2 has included repairs and replacements not typical as compared to the remaining 3 SBRs. In retrospect, SBR 2 was initially used as a sludge holding tank during the rehabilitation/conversion of the post equalization flow tanks. This use may be a contributing factor for accelerated repair and replacement schedule of equipment.

### **Moving Forward**

In review of the challenges faced with recognizing, identifying and implementing corrective actions for the issues of recent non-compliance for total phosphorus, the following recommendations are proposed:

- Split sampling of samples between certified laboratories. This has been implemented with samples collected on October 22<sup>nd</sup> and 29<sup>th</sup> with samples sent to Suburban Laboratories.
- Implement routine analysis of a known standard (known value) as part of the in-house laboratory testing.
- Solicit price quotes from certified laboratories for consideration of retaining a new laboratory for sample analysis.
- On site presence of the licensed Operator of Responsible Charge during periods of perceived or actual non-compliance with the NPDES permit.
- Continued contract management of the chemical supplier to ensure timely delivery of chemicals.

**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**September 9, 2019**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, September 9, 2019 at 7:00 pm at the East Goshen Township building. Members in attendance were: Dana Pizarro, Jack Yahraes, and Walter Wujcik. Also in attendance were: Jon Altshul (Township Asst. Manager), Mark Miller (Director of Public Works), Mike Ellis (Pennoi), and Jessica Wiesak (Attorney).

**COMMON ACRONYMS:**

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park &amp; Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&amp;I – Inflow &amp; Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
	<i>WAS – Waste Activated Sludge</i>

**Call to Order & Pledge of Allegiance**

Dana called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops, veterans and first responders. Dana asked if anyone would be recording the meeting. There was no response.

**Chairman's Report**

1. No report.

**Sewer Reports**

**1. Director of Public Works, Mark Miller's report for July:**

Monthly Flows: The average daily flows to West Goshen were 780,000 for the month of August.

Meters: The meters were read on a daily basis. The meters were calibrated on August 23<sup>rd</sup>. No problems were noted.

C.C. Collection: The pump stations were visited on a daily basis with no problems to report. We were notified of a sewer back up on Sturbridge Lane. We attempted to plunge the lateral until it was clear. The lateral was televised and we found that the lateral had a significant sag. The homeowner was advised of the problem.

R.C. Collection: The stations were visited on a daily basis with no problems to report. A contractor working from PECO struck a lateral on Sleepy Hollow Lane. The contractor excavated the lateral and we made the repairs. We also replaced 14 castings while paving.

Ridley Creek Plant: The operator reported that a limb was hanging over tank one. We trimmed the trees around the tanks. We installed the rebuilt pump for the Applebrook spray irrigation and started sending water to the golf course.

Alarms: We responded to 25 alarms in August.

PA One Calls: We responded to 75 PA One Calls for the month of August.

Rainfall: 1.55 inches for August.

1  
2 **2. Pennoni Engineer's Report for August**

3 Invoices – Invoices with summaries were provided under separate cover.

4 Ridley Creek Sewage Treatment Plant (RCSTP)

5 We continued coordination with the vendor (Cummins) on product selection, fuel tank sizing,  
6 and cost for replacements of the existing Spectrum Detroit Diesel "Generator 1". We have  
7 requested a formal cost quote addressed to the Township for consideration at the September  
8 MA meeting but we have not yet received it at the time of this report. We are working with  
9 the vendor to provide it ASAP so that we can forward to the MA prior to the meeting.

10 Barkway Pump Station Grinder

11 No activity since our last report. The Muffin Monster manhole and equipment was delivered  
12 to the Township in late May.

13 Tallmadge Drive Sewer Main Replacement

14 The 2-year maintenance bond period ends March 21, 2021.

15 I&I Support and Reporting

16 No activity since our last report.

17 New Connections

18 A new home is proposed at 204 Line Road that will require a grinder pump system. We are  
19 awaiting a plan submission to review.

20 Hershey's Mill Pump Station

21 We performed topographic, existing conditions, and property boundary survey of the pump  
22 station site and creek and are developing an existing conditions plan. The plan will be utilized  
23 for floodplain impact determination and site design (namely to determine required height of  
24 the generator above grade).

25 We prepared a second rendering of the site with the proposed generator in place for use by the  
26 Township in coordination with the Hershey's Mill Homeowners' Association. This rendering  
27 is as viewed from Greenhill Road. The prior rendering was a view from the Hershey's mill  
28 entrance drive.

29 We continued coordination with the vendor (Cummins) on product selection, fuel tank sizing,  
30 and cost. We have requested a formal cost quote addressed to the Township for consideration  
31 at the September MA meeting but we have not yet received it at the time of this report. We  
32 are working with the vendor to provide it ASAP so that we can forward to the MA prior to the  
33 meeting.

34 Permanent Flow Meter Manholes

35 We continued coordination with the Township and vendor on permanent flow meter manholes  
36 and meter systems for installation at two locations in the Ridley Creek collection system,  
37 specifically on field determining specific depths of the manholes, exact locations, and  
38 associated cost impacts.

39  
40 **3. Big Fish Environmental Services** – The Ridley Creek sewage treatment plant outfall 001  
41 achieved compliance with the permit discharge limitations for the month of July 2019. Discharge to  
42 the Applebrook irrigation lagoon remained off line during July and August 2019. Chemical usage  
43 utilized for total phosphorus removal, pH and total alkalinity remained consistent with previous  
44 months. No significant mechanical or operational issues were observed during operation of sludge  
45 dewatering equipment or SBR treatment process.



1 **Approval of Minutes**

2 The minutes of the August 12, 2019 meeting were approved.  
3

4 **Approval of Invoices**

5 1. Walter moved to approve payment of the following Pennoni invoices:

6 Pennoni Invoice #876341 \$ 4,979.00

7 Pennoni Invoice #876342 \$ 1,565.50

8 Pennoni Invoice #876343 \$ 104.71

9 Jack seconded the motion. The motion passed unanimously.  
10

11 2. Jack moved to approve the Gawthrop Greenwood Invoice #214579 for \$440.00. Note that  
12 Gawthrop Greenwood Invoice #213818 for \$220.00 was already paid. Walter seconded the motion.  
13 The motion passed unanimously.  
14

15 **Financial Reports**

16 Jon Altshul provided the following written report:

17 In August, the Municipal Authority recorded \$33,154 in revenues (including \$29,078 from the PA  
18 Small Water and Sewer Grant or 90% of the total cost of the Barkway Muffin Monster and \$4,090  
19 from transfers in) and \$1,857 in expenses, for a positive variance of \$31,297. As of July 26<sup>th</sup>, the  
20 fund balance was \$49,166.

21 Jon reviewed the grant from PA for the Barkway Muffin Monster. He reviewed the 2020 proposed  
22 budget.

23 Michele Truitt, 1430 Grand Oak La – Asked about the amount for improvements. Jon reviewed the  
24 breakdown.  
25

26 **Liaison Reports**

27 1. Conservancy Board – Walter reported that they will be looking at doing a Fall planting probably at  
28 the Blacksmith Shop area.

29 2. Board of Supervisors – Jon reported that there will be a hearing Wednesday for a conditional use  
30 for a woodworking shop at a residence. Next Thursday, September 19 at 7:00 pm there will be a  
31 public meeting with Sunoco who is requesting 24/7 to work on the pipeline during pullbacks. Hankin  
32 Group presented a proposal for apartments in the BP district. The TND Overlay will be discussed on  
33 Oct. 15<sup>th</sup>. The work for the Reservoir will go out to bid at the end of the year.  
34

35 **New Business**

36 1. PCCS Permanent Sanitary metering – Mike commented that they propose to install two  
37 permanent meters in the collection system this year and one next year. After looking at options, they  
38 decided on HARCO ultrasonic meter with new manholes where needed. He described the original  
39 quote and changes. He reviewed the quote of \$12,000 for 2 meters. They projected \$50,000 for  
40 meters and manholes in 2020.

41 2. Hershey's Mill Pump Station Generator replacement – Mike reviewed the proposal. With a quiet  
42 sound enclosure the cost will be \$38,259. It will need an elevated slab and electric installed. He  
43 estimates the total cost will be \$85,000 to \$90,000. Mark Miller will take it to Ed McFalls for review.  
44 Walter moved to approve the purchase and order the generator for Hershey's Mill pending any  
45 changes for permitting. Jack seconded the motion. The motion passed unanimously.

46 3. RCSTP Generator – Mike explained the 450 kw generator is the same size as the current one and  
47 it comes with a quite enclosure. The cost is \$116,000. This is an immediate need. Jack moved to

1 approve the purchase of a replacement generator at \$116,000 for RCSTP. Walter seconded the  
2 motion. The motion passed unanimously.  
3

4 **Any Other Matter**

5 In response to an inquiry and discussion Mike mentioned that the Westtown Service Area is located  
6 along the southern border of East Goshen Township between West Chester Pike and Manley Road. It  
7 consists of the 426-unit Summit House condominium complex and the 96-unit Cider Knoll  
8 condominium complex for a total of 522 residential units. Both developments originally had their  
9 wastewater treated at Westtown's Sewage Treatment Plant through an intermunicipal agreement.  
10 About 1998, a pump station at Summit House failed and, rather than replacing the pump station, a  
11 gravity sewer was constructed and connected to East Goshen's existing Chester Creek Collection  
12 System (West Goshen Service Area) sewers in West Chester Pike. 102 units were thereby diverted  
13 from Westtown to the Chester Creek Collection System, where they are ultimately conveyed to West  
14 Goshen's Sewage Treatment Plant. The result is that 420 condos are currently conveyed to  
15 Westtown and 102 condos are conveyed to West Goshen. The 102 units that flow to West Goshen  
16 count against the intermunicipal agreement between Westtown and West Goshen and are not  
17 included in East Goshen's 1 MGD intermunicipal agreement with West Goshen. East Goshen thereby  
18 pays Westtown for these 522 condos.  
19

20 **Adjournment**

21 There being no further business, Jack moved to adjourn the meeting. Walter seconded the motion.  
22 The meeting was adjourned at 8:00. The next regular meeting will be held on Monday,  
23 October 14, 2019 at 7:00 pm.  
24

25 Respectfully submitted,  
26

27  
28 Ruth Kiefer  
29 Recording Secretary

**DRAFT**  
**EAST GOSHEN TOWNSHIP MUNICIPAL AUTHORITY**  
**MEETING MINUTES**  
**October 14, 2019**

The East Goshen Township Municipal Authority held their regular public meeting on Monday, October 14, 2019 at 7:00 pm at the East Goshen Township building. Members in attendance were: Chairman Kevin Cummings, Jack Yahraes, Phil Mayer, and Walter Wujcik. Also in attendance were: Jon Altshul (Township Asst. Manager), Mike Ellis (Pennoi), and Robert Jefferson (Gawthrop).

**COMMON ACRONYMS:**

<i>BFES – Big Fish Environmental Services</i>	<i>MA- Municipal Authority</i>
<i>BOS – Board of Supervisors</i>	<i>NPDES – National Pollutant Discharge Elimination System</i>
<i>CB – Conservancy Board</i>	<i>PC – Planning Commission</i>
<i>DEP – Department of Environmental Protection</i>	<i>PM – Prevention Maintenance</i>
<i>EPA – Environmental protection Agency</i>	<i>PR – Park &amp; Recreation Board</i>
<i>HC – Historical Commission</i>	<i>RCSTP – Ridley Creek Sewer Treatment Plant</i>
<i>I&amp;I – Inflow &amp; Infiltration</i>	<i>SBR – Sequencing Batch Reactor</i>
<i>LCSTP – Lockwood Chase Sewer Treatment Plant</i>	<i>SSO – Sanitary System Overflow</i>
	<i>WAS – Waste Activated Sludge</i>

**Call to Order & Pledge of Allegiance**

Kevin called the meeting to order at 7:00 pm and led those present in the Pledge of Allegiance. There was a moment of silence to remember our troops, veterans and first responders. Kevin asked if anyone would be recording the meeting. There was no response.

**Chairman's Report**

1. Phil mentioned that the West Goshen meeting was postponed and he couldn't attend.

**Sewer Reports**

**1. Director of Public Works, Mark Miller's report for September:**

Monthly Flows: Due to the lack of rain the flows are down. I did not receive the flow information from West Goshen.

Meters: The meters were read on a daily basis with no problems to report. Mike Ellis and I met to inspect the locations for the new meters that are being planned on the Ridley Creek Collection System.

C.C. Collection: The pump stations were visited on a daily basis. Wet wells were hosed down during each visit. Routine maintenance was performed and all oil levels were checked.

R.C. Collection: The pump stations were visited on a daily basis. The pumps at the Hershey Mill station were both pulled for routine maintenance and sent to Deckman Electric for repairs. Steven has been replacing sewer caps as residents call to report missing caps.

Ridley Creek Plant: Routine maintenance was performed by Public Works. Paul Siddell who performs the generator maintenance was called to investigate an oil leak on the Cummins generator. Paul found a fuel leak on top of the engine caused by a loose fitting.

Alarms: We responded to 16 alarms in September, ranging from power outages to a low level alarm at the Barkway pump station, which was caused when the fog rod dropped out of its bracket.

PA One Calls: We responded to over 40 PA One Calls for the month of September.

Rainfall: 1 inch for September.

1  
2 **2. Pennoni Engineer's Report for September dated October 4, 2019**

3 Invoices – Invoices with summaries were provided under separate cover.

4 Ridley Creek Sewage Treatment Plant (RCSTP)

5 Generator Replacement - We are continuing coordination with the vendor (Cummins) on  
6 reduced fuel tank sizing (48 hours storage vs. 72 hours) and associated reduced cost for  
7 replacement of the existing Spectrum Detroit Diesel "Generator 1". We expect the generator  
8 can be ordered within the next 1-2 weeks. There is a 4-month lead time to acquire the  
9 generator thereafter. The footprint of the generator will require the existing concrete pad to  
10 be enlarged slightly.

11 We propose a supplemental fee Not-to-exceed \$3,000 on a T&M basis at our approved hourly  
12 rates for the pad design, continued vendor coordination, and future construction assistance  
13 (original authorization was \$5,000 on a T&M basis). This request was approved since it is  
14 under \$5,000.

15 SBR Tank #3 Inspection – We are scheduled to perform a visual structural evaluation of the  
16 tank's concrete and coatings on October 9. A brief summary report will be provided  
17 thereafter, similar to that for SBR Tank #2 in 2018 to maintain a written and photographic log  
18 of the conditions in the tanks over time.

19 Update – when they got there, they looked at SBR #2. When they swap tanks, they will look  
20 at #3.

21 Barkway Pump Station Grinder

22 No activity since our last report. The Muffin Monster manhole and equipment was delivered  
23 to the Township in late May.

24 Tallmadge Drive Sewer Main Replacement

25 The 2-year maintenance bond period ends March 21, 2021.

26 I&I Support and Reporting

27 No activity since our last report.

28 New Connections

29 A new home is proposed at 204 Line Road that will require a grinder pump system. We met  
30 with the design consultant for a sewer permit pre-application meeting and we reviewed the  
31 proposed sewer connection plan thereafter. Note: Mike explained the construction needs.

32 Hershey's Mill Pump Station Generator Replacement

33 The floodplain impact analysis was completed and we submitted a Floodplain Certification to  
34 the Township's Floodplain Administrator for approval.

35 We prepared three additional renderings of the site with the proposed generator for use by the  
36 township in coordination with the Hershey's Mill Homeowner's Association. Note: Mark  
37 asked for a decrease from a 72 hour tank to a 48 hour tank. There will be a decrease in cost.

38 To reduce the footprint, size, and visual impact, the generator is now proposed with a 48-hour  
39 fuel tank instead of a 72-hour tank. We coordinated with the vendor (Cummins) on product  
40 selection and cost revisions accordingly. The generator can be ordered upon approval of the  
41 Hershey's Mill HOA.

42 We also initiated preparation of site and electrical construction plans for use by the Public  
43 Works Department in constructing the improvements.  
44  
45  
46  
47

1 Permanent Flow Meter Manholes

2 We performed a field visit with Mark Miller to determine exact locations and depths of the  
3 first two proposed permanent flow metering manholes in the Ridley Creek Collection System  
4 and we are coordinating with the vendor for revised pricing.  
5  
6

7 **3. Big Fish Environmental Services – Executive Summary**

8 The Ridley Creek sewage treatment plant outfall 001 achieved compliance with the permit discharge  
9 limitations for the month of August 2019 except for the final effluent total phosphorus concentration.  
10 Discharge to the Applebrook irrigation lagoon remained off line during August and September 2019.  
11 Chemical usage utilized for total phosphorus removal, pH and total alkalinity remained consistent  
12 with previous months. No significant mechanical or operational issues were observed during  
13 operation of sludge dewatering equipment. SBR #2 was identified to have a failed actuator on the  
14 final effluent discharge pipe.  
15

16 **Approval of Minutes**

17 The minutes of the September 9, 2019 meeting were not approved. Kevin is concerned that there was  
18 no mention of level exceedance, which is still high. The current Big Fish report shows that on  
19 August 27 phosphorus levels doubled. Kevin requested that Scott Towler come to next month's  
20 meeting. Mike explained how DEP is notified.  
21

22 **Approval of Invoices**

23 1. Walter moved to approve payment of the following Pennoni invoices:

24	Pennoni Invoice #879977	\$ 2,864.75
25	Pennoni Invoice #879978	\$ 536.00
26	Pennoni Invoice #879979	\$ 1,040.25
27	Pennoni Invoice #879980	\$ 7,314.89

28 Phil seconded the motion. The motion passed unanimously.  
29

30 2. Phil moved to approve the Gawthrop Greenwood Invoice #216407 for \$660.00. Walter seconded  
31 the motion. The motion passed unanimously.  
32

33 **Liaison Reports**

34 1. Conservancy Board – Walter reported that they will be doing a Fall planting on November 9, 2019  
35 (raindate November 16) at the Blacksmith Shop area.  
36

37 **Financial Reports**

38 Jon Altshul provided the following written report:

39 In September, the Municipal Authority recorded \$9,778 in revenues (including a \$2,000 tap in fee  
40 from 1518 Strasburg) and \$14,677 in expenses (including \$7,588 for Q3 Administrative chargeback),  
41 for a negative variance of \$31,297. As of August 26<sup>th</sup>, the fund balance was \$44,267.  
42

43 Jon provided a draft 2020-2014 CIP for consideration as well as a draft 2020 budget. The relining  
44 cost of \$130,000 is a township expense and he recommends moving it out of the MA budget.  
45

46 Jon commented on the email from Mike Moffa, which explains the costs for the WWTP Phase 2  
47 project. Our share was originally budgeted at \$1.31 million. If the bids come back in line with this

1 revised estimate, the proceeds of the sewer portion of the bond fund would be about \$450,000 short  
2 to cover this. Rick and I will be meeting with the Township Finance Committee soon, but our  
3 recommendation is to borrow this shortfall from the Township's Sewer Capital Reserve Fund (which  
4 has a balance of about \$2.25 million) over a period of 10 years (basically a 0% inter-fund loan) or  
5 about \$45,000 per year, which would correspond with less than \$2 per quarter to ratepayer's sewer  
6 bills. The COMAC project bids came in at anticipated cost. Administrative costs were discussed.  
7 Jon spoke about the history of the Sewer Capital Reserve Fund, which was set up in 2008.

#### 8 9 **New Business**

10 **Grants** — Jon spoke about PA water and sewer grants and asked if there was a project we might want  
11 to apply for. He suggested relining. Mike feels he has enough data for an application. Caustic soda  
12 was also discussed. Mike will look into this. Jon wants to keep this topic on the agenda for next  
13 month.

#### 14 15 **Capacity Requests**

16 Hankin Proposal, 1351 Paoli Pike - Neil Fisher, representative of the Hankin Group, gave a brief  
17 overview of the project. They are requesting an ordinance amendment to allow residential/retail in  
18 the BP zone. They have found that flows are about 175/day/unit. Mike commented that there is  
19 capacity for this.

20 Jack moved that the MA direct Township staff to send a letter to DL Howell confirming that there is  
21 sufficient capacity in the Township's sewer distribution network and under the Municipal Authority's  
22 agreement with the West Goshen Sewer Authority to treat 39,600 GPD at the West Goshen Sewer  
23 treatment Plant, as well as outlining the Municipal Authority's policy for the payment of associated  
24 tap-in fees. Phil seconded the motion. The motion passed unanimously.

#### 25 26 **Any Other Matter**

27 Phil mentioned that Sue Smith called him about his 5 year term. Terms were discussed. Positions on  
28 the MA were discussed and how they would be realigned if needed.

#### 29 30 **Adjournment**

31 There being no further business, Jack moved to adjourn the meeting. Walter seconded the motion.  
32 The meeting was adjourned at 8:00. The next regular meeting will be held on Monday,  
33 November 11, 2019 at 7:00 pm.

34  
35 Respectfully submitted,

36  
37  
38 Ruth Kiefer  
39 Recording Secretary



# INVOICE

Newark, DE  
302-655-4451 Fax: 302-654-2895

Remit Payment To:  
**Pennoni**  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 883971  
Invoice Date : 10/09/2019  
Project : EGMAU19001  
Project Name : 2019 General Services

For Services Rendered through: 9/30/2019

OK *[Signature]*  
11/1/19

Prepared for visual structural condition assessment of SBR Tank #3.

Permanent RCCS Metering: field visit with M. Miller to determine specific locations of proposed metering manholes and observe flows conditions in adjacent manholes.

Hershey's Mill PS (HMPS) Generator Renderings: initiated preparation of 4 additional/revised renderings of proposed generator to depict generator with smaller fuel tank and to include proposed landscape screening (renderings are not part of our HMPS generator design & permitting project scope [EGMAU19005]).

Phase : \*\*\*\* -- Professional Services

Total Phase : \*\*\*\* -- Professional Services

Labor :	799.75
Expense :	0.00
Phase Total :	799.75

Amount Due This Invoice

\$799.75

Fee :	27,000.00
Prior Billings :	18,477.50
Current Billings :	799.75
Total Billings :	19,277.25

Phase : \*\*\*\* -- Professional Services

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	3.25	127.00	412.75
Associate Professional	0.50	94.00	47.00
Graduate Professional	4.00	85.00	340.00
<b>Labor Total:</b>	<b>7.75</b>		<b>799.75</b>

Total Phase : \*\*\*\* -- Professional Services

Labor :	\$799.75
Expense :	\$0.00

Total Project : EGMAU19001 -- 2019 General Services

Labor :	\$799.75
Expense :	\$0.00

INVOICES DUE ON RECEIPT. Invoices outstanding over 30 days will have a Service Charge of 1 1/2% per month.

East Goshen Municipal Authority  
EGMAU19001 Invoice Summary  
Invoice Date 10/9/2019

**Project:** EGMAU19001  
**Pennoni Job No.:** 2019 General Services  
**Invoice No:** 883971  
**Invoice Period:** 9/16/2019 to 9/30/2019  
**Date:** 10/9/2019  
**Initial Authorization:** \$ 27,000.00  
**Contract Amount:** \$ 27,000.00  
**Previously Invoiced:** \$ 18,477.50  
**Current Invoice:** \$ 799.75  
**Invoiced to Date (\$):** \$ 19,277.25  
**Invoiced to Date (%):** 71%  
**Remaining Budget (\$):** \$ 7,722.75  
**Remaining Budget (%):** 29%

**Budget by Phase:**

**Phase Name:** 2019 General Services  
**Phase Budget:** \$ 27,000.00  
**Previously Invoiced:** \$ 18,477.50  
**Current Invoice:** \$ 799.75  
**Invoiced to Date (\$):** \$ 19,277.25  
**Invoiced to Date (%):** 71%  
**Remaining Budget (\$):** \$ 7,722.75  
**Remaining Budget (%):** 29%

**Comments:** Prepared for visual structural condition assessment of SBR Tank #3.

Permanent RCCS Metering: field visit with M. Miller to determine specific locations of proposed metering manholes and observe flows conditions in adjacent manholes.

Hershey's Mill PS (HMPS) Generator Renderings: initiated preparation of 4 additional/revised renderings of proposed generator to depict generator with smaller fuel tank and to include proposed landscape screening (renderings are not part of our HMPS generator design & permitting project scope [EGMAU19005]).





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P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 883972  
Invoice Date : 10/09/2019  
Project : EGMAU19004  
Project Name : RCSTP Generator Replacement

OK *[Signature]* 11/1/19

For Services Rendered through: 9/30/2019

Continued coordination with Township and vendor for generator and fuel tank sizing and revised cost quote; and initiated design of concrete pad expansion to accomodate new generator.

Phase : 01 -- Concept Design

Total Phase : 01 -- Concept Design

Labor : 1,181.75  
Expense : 0.00  
Phase Total : 1,181.75

## Amount Due This Invoice

\$1,181.75

Fee : 5,000.00  
Prior Billings : 3,585.25  
Current Billings : 1,181.75  
Total Billings : 4,767.00

Phase : 01 -- Concept Design

Labor Class	Hours/ Units	Rate	Amount
Authority Engineer	1.25	127.00	158.75
Senior Professional	7.50	121.00	907.50
Associate Professional	0.25	94.00	23.50
Sr. Engineering Technician	1.00	92.00	92.00
<b>Labor Total:</b>	<b>10.00</b>		<b>1,181.75</b>

Total Phase : 01 -- Concept Design

Labor : \$1,181.75  
Expense : \$0.00

Total Project : EGMAU19004 -- RCSTP Generator Replacement

Labor : \$1,181.75  
Expense : \$0.00

East Goshen Municipal Authority  
EGMAU19004 Invoice Summary  
Invoice Date 10/9/2019

**Project:** EGMAU19004  
**Pennoni Job No.:** RCSTP Generator Replacement  
**Invoice No:** 883972  
**Invoice Period:** 9/16/2019 to 9/30/2019  
**Date:** 10/9/2019  
**Initial Authorization:** \$ 5,000.00  
**Contract Amount:** \$ 5,000.00  
**Previously Invoiced:** \$ 3,585.25  
**Current Invoice:** \$ 1,181.75  
**Invoiced to Date (\$):** \$ 4,767.00  
**Invoiced to Date (%):** 95%  
**Remaining Budget (\$):** \$ 233.00  
**Remaining Budget (%):** 5%

**Budget by Phase:**

**Phase Name:** RCSTP Generator Replacement  
**Phase Budget:** \$ 5,000.00  
**Previously Invoiced:** \$ 3,585.25  
**Current Invoice:** \$ 1,181.75  
**Invoiced to Date (\$):** \$ 4,767.00  
**Invoiced to Date (%):** 95%  
**Remaining Budget (\$):** \$ 233.00  
**Remaining Budget (%):** 5%

**Comments:** Continued coordination with Township and vendor for generator and fuel tank sizing and revised cost quote; and initiated design of concrete pad expansion to accomodate new generator.



# INVOICE

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302-655-4451 Fax: 302-654-2895

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Pennoni  
P.O. Box 827328  
Philadelphia, PA 19182-7328

East Goshen Municipal Authority  
1580 Paoli Pike  
West Chester, PA 19380-6199  
Attention: Louis F. Smith, Twp Mgr.

Invoice # : 883973  
Invoice Date : 10/09/2019  
Project : EGMAU19005  
Project Name : HMPS Survey & Design for  
Generator

*For* *11/1/19*

For Services Rendered through: 9/30/2019

Continued preparation of floodplain impact analysis, floodplain non-impact certification letter, and associated plan exhibit; continued coordination with Township and vendor on generator model selection (smaller fuel tank) and pricing; continued preparation of site design plans and initiated electrical design and plans.

Phase Code / Name	Contract Amount	Previously Billed	% Complete	Complete To Date	Amount This Invoice
01 -- Survey	\$7,800.00	\$5,576.75	100.00%	\$7,800.00	\$2,223.25
02 -- Civil	\$5,800.00	\$1,842.85	73.31%	\$4,252.10	\$2,409.25
03 -- MEP	\$8,800.00	\$0.00	6.41%	\$564.36	\$564.36
Total :	\$22,400.00	\$7,419.60		\$12,616.46	\$5,196.86

Amount Due This Invoice

\$5,196.86

East Goshen Municipal Authority  
EGMAU19005 Invoice Summary  
Invoice Date 10/9/2019

**Project:** EGMAU19005  
**Pennoni Job No.:** HMPS Survey & Design for Generator  
**Invoice No:** 883973  
**Invoice Period:** 9/16/2019 to 9/30/2019  
**Initial Authorization:** \$ 22,400.00 **Date:** 10/9/2019  
**Contract Amount:** \$ 22,400.00  
**Previously Invoiced:** \$ 7,419.60  
**Current Invoice:** \$ 5,196.86  
**Invoiced to Date (\$):** \$ 12,616.46  
**Invoiced to Date (%):** 56%  
**Remaining Budget (\$):** \$ 9,783.54  
**Remaining Budget (%):** 44%

**Budget by Phase:**

**Phase Name:** HMPS Survey & Design for Generator  
**Phase Budget:** \$ 22,400.00  
**Previously Invoiced:** \$ 7,419.60  
**Current Invoice:** \$ 5,196.86  
**Invoiced to Date (\$):** \$ 12,616.46  
**Invoiced to Date (%):** 56%  
**Remaining Budget (\$):** \$ 9,783.54  
**Remaining Budget (%):** 44%

**Comments:** Continued preparation of floodplain impact analysis, floodplain non-impact certification letter, and associated plan exhibit; continued coordination with Township and vendor on generator model selection (smaller fuel tank) and pricing; continued preparation of site design plans and initiated electrical design and plans.

# Memo

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To: Municipal Authority  
From: Jon Altshul  
Re: MA October Financial Report  
Date: October 31, 2019

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In October, the Municipal Authority recorded \$10,400 in revenues (including a \$2,000 tap in fee from 190 Line Road) and \$12,416 in expenses, for a negative variance of \$2,016. As of October 31<sup>st</sup>, the fund balance was \$42,251.

Note that because the meeting is early this month, the financial report is being done prior to entering any interest income for the month.

A complete list of YTD MA revenues and expenses is attached.

## **Budget & CIP**

I have attached a draft 2020-2014 CIP for your consideration, as well as a draft 2020 budget. You can either adopt these today or wait on doing so at your December meeting.

**Recommended motion:** I move that we approve the 2020 Municipal Authority budget as proposed. I further move that we adopt the 2020-2024 Capital Improvement Plan for the Municipal Authority as proposed.

## **PA Small Water and Sewer Grant**

As mentioned last month, I would like to apply for a 2019 Small Water and Sewer Grant through DCED for the Caustic Soda project. This program provides grants of between \$30,000 and \$500,000 with a 15% match for deserving water and sewer projects. The deadline for applications is We have budgeted \$160,000 for the Caustic Soda project; this project would therefore correspond with a grant of \$136,000 and matching funds of \$24,000.

As part of the application package, we would need a cost estimate from Mike, letter from the Township Planning Commission (which could be obtained at its November 6 meeting), and a resolution (attached) approved by the Authority.

**Recommended motion:** I move that we authorize the Secretary to sign the resolution approving application of a grant through the PA Small Water and Sewer program in the amount of \$136,000 and to approve matching costs in the amount of \$24,000 for the Caustic Soda project.

EAST GOSHEN TOWNSHIP  
Other Funds  
October 2019  
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
<b>REVENUE</b>								
INTEREST EARNINGS	07341 1000			(142.60)	(142.60)		(15.00)	(15.00)
CAPITAL RESERVE-INTEREST	07341 1010							
INTEREST EARNED - CONSTRUCTION	07341 1020							
DGED GRANT	07354 0400	32,307		29,078.00	29,078.00			
C.C. TAPPING FEES	07364 1100			2,000.00	2,000.00			
R.C. TAPPING FEES	07364 1110			2,000.00	2,000.00		2,000.00	2,000.00
M.C. LOAN PAYMENTS	07364 1120							
CONNECTION FEES - SEWER	07364 1130			1,247.52	1,247.52		60.00	60.00
MISCELLANEOUS REVENUE	07380 1000			565.48	565.48			
TRANSFER FROM GENERAL ACCT	07392 0100							
TRANSFER FROM SEWER OPERATING	07392 0500	311,118	211,118	224,120.30	13,002.30			
TRANSFER FROM SEWER CAP RESV	07392 0501	357,000						
TRANSFER-ANNUAL CAP. RESERVE	07392 0510							
GRANT REVENUE	07392 0800							
LOAN PROCEEDS - SEWER PROJECT	07392 0804							
TRANSFER FROM SEWER CAP RESERVE	07392 0900			27,827.32	27,827.32		8,355.14	8,355.14
<b>TOTAL REVENUE</b>		<b>700,425</b>	<b>211,118</b>	<b>286,696.02</b>	<b>75,578.02</b>		<b>10,400.14</b>	<b>10,400.14</b>
<b>EXPENSES</b>								
ADMINISTRATIVE WAGES	07424 1400	32,000	24,000	22,762.77	1,237.23			
R.C. LOAN ISSUANCE COSTS	07424 1500							
MISCELLANEOUS EXPENSE	07424 3000	2,262	1,885	634.00	1,251.00	188		188.00
MUNIC. AUTH.-AUDITING	07424 3110	9,663	9,663	9,650.00	13.00			
ENGINEERING SERVICES	07424 3130	70,000	58,333	39,571.25	18,761.75	5,833	3,400.75	2,432.25
LEGAL SERVICES	07424 3140	8,000	6,670	4,020.00	2,650.00	670	660.00	10.00
W.G. C.C. STP-UPGRADE	07424 7400							
MANHOLE COVER REPLACEMENTS	07424 7405							
C.C. CAPITAL - METERS	07424 7410							
C.C. CAPITAL- COLLECTION	07424 7420							
C.C. CAPITAL- INTERCEPTOR	07424 7430							
CAPITAL PROJ.-ENGINEERING	07424 7431							
R.C. CAPITAL-STP	07424 7440			15,776.22	(15,776.22)			
R.C. CAPITAL - COLLECTION	07424 7450							
R.C.-CAP. PROJ.-ENGINEER	07424 7451							
CAP. REPLACEMENT R.C.	07424 7490							
CAPITAL REPLACEMENT ASHBRIDGE	07424 7491							
HERSHEY MILL STATION - ENGINEER	07426 1000			12,405.85	(12,405.85)		7,314.89	(7,314.89)
HERSHEY MILL STATION - CONSTRUCTION	07426 2000							
TALLMADGE DRIVE	07426 3000			102,660.00	(102,660.00)			

EAST GOSHEN TOWNSHIP  
Other Funds  
October 2019  
Municipal Authority

Account Title	Acct #	Annual Budget	Y-T-D Budget	Y-T-D Actual	Y-T-D Variance	M-T-D Budget	M-T-D Actual	M-T-D Variance
RESERVOIR PUMP STATION - ENGINEER	07428 1000							
RESERVOIR PUMP STATION CONSTRUCTION	07428 2000							
RELINING	07429 1500	130,000	97,500		97,500.00			
BARKWAY PUMP STATION CAPITAL	07429 1501	67,000	50,250	59,302.71	(9,052.71)			
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503	125,000	93,750		93,750.00			
HUNT CO PUMP STATION CAPITAL	07429 1504	87,000	65,250		65,250.00			
RCSTP CAPITAL	07429 1505	169,500	127,125	3,585.25	123,539.75		1,040.25	(1,040.25)
ASBESTOS CONCRETE ENGINEERING	07429 3130							
DIVERSION PROJ.- LEGAL	07429 3166							
WEST GOSHEN CAPITAL	07429 6100							
M.C.-DVRFA-DEBT SERVICE	07471 1000							
M.A.-R.C. DEBT SERVICE	07471 1010							
DVRFA PUMPING STATIONS - PRINCIPAL	07471 2000							
M.C.-DVRFA-INTEREST PAYMN	07472 1000							
M.A.-R.C. INTEREST	07472 1010							
DVRFA PUMPING STATIONS - INTEREST	07472 2000							
TRANSFER TO GENERAL FUND	07492 0100							
TRANSFER TO SEW.OPERATING	07492 0500							
TRF TO SEWER SINKING FUND	07492 0550							
TRANSFER TO AUTHORITY CAP FUND	07492 0990							
TOTAL EXPENSES		700,425	534,426	270,368.05	264,057.95	6,691	12,415.89	(5,724.89)
NET RESULT FROM OPERATIONS			(323,308)	16,327.97	339,635.97	(6,691)	(2,015.75)	4,675.25

YTD Expenses Municipal Authority, as of 10-31-19

Account #	Description	Per	Src	Trx#	Debits	Date	Name	Description	Description 2
07424-1400	BEGINNING BALANCE								
07424-1400	ADMINISTRATIVE WAGES		1903 CD	67467	7,587.59	3/25/2019	EAST GOSHEN TOWNSHIP - GENERAL	QTR.1-2019 REIMBURSEMENT - MA	
07424-1400	ADMINISTRATIVE WAGES		1906 CD	68991	7,587.59	6/28/2019	EAST GOSHEN TOWNSHIP - GENERAL	QTR.2 2019 REIMBURSEMENT - MA	
07424-1400	ADMINISTRATIVE WAGES		1909 CD	70439	7,587.59	9/27/2019	EAST GOSHEN TOWNSHIP - GENERAL	Q3-2019 REIMBURSEMENT	
07424-3000	BEGINNING BALANCE								
07424-3000	MISCELLANEOUS EXPENSE		1901 CD	66492	8.00	1/15/2019	PMAA	PA MUNICIPAL AUTH.- PROUD HISTORY	- BRIGHT FUTURE
07424-3000	MISCELLANEOUS EXPENSE		1902 CD	66863	8.00	2/14/2019	YAHRAES, JOHN E.	REIMBURSEMENT - PROUD HISTORY..."	PUBLICATION
07424-3000	MISCELLANEOUS EXPENSE		1902 CD	66865	(8.00)	2/14/2019	YAHRAES, JOHN E.	VOID CK 3148	
07424-3000	MISCELLANEOUS EXPENSE		1905 CD	68323	626.00	5/16/2019	DELAWARE RIVER BASIN COMMISSION	ANNUAL FEE D-2000-030 CP WASTE	WATER DISCHARGE
07424-3110	BEGINNING BALANCE								
07424-3110	MUNIC.AUTH.-AUDITING		1903 CD	67467	7,007.00	3/25/2019	MAILLIE FALCONIERO & CO.	2018 FINANCIAL STMT. - MUNICIPAL	AUTHORITY
07424-3110	MUNIC.AUTH.-AUDITING		1905 CD	68357	2,643.00	5/20/2019	MAILLIE FALCONIERO & CO.	EXAM. MUNIC.AUTH. 2018 FINANCIAL	STATEMENTS
07424-3130	BEGINNING BALANCE								
07424-3130	ENGINEERING SERVICES		1901 CD	66492	4,864.00	1/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 12/30/18 2018 I&I SUPPT.	
07424-3130	ENGINEERING SERVICES		1902 CD	66872	5,170.00	2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 CHAP.94	
07424-3130	ENGINEERING SERVICES		1903 CD	67320	6,055.00	3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 2019 GEN.SERV	
07424-3130	ENGINEERING SERVICES		1904 CD	67745	2,875.25	4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 2019 GENERAL	
07424-3130	ENGINEERING SERVICES		1905 CD	68309	5,596.00	5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 2019 GEN.SERV	
07424-3130	ENGINEERING SERVICES		1906 CD	68813	925.50	6/17/2019	PENNONI ASSOCIATES INC.	SERV.THRU 5/12/19 2019 GEN.SERVICE	
07424-3130	ENGINEERING SERVICES		1907 CD	69220	4,171.25	7/16/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 6/17/19 - 2019 I&I	SUPPORT
07424-3130	ENGINEERING SERVICES		1908 CD	69674	1,534.50	8/13/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 7/14/19 2019 GEN.SERV.	
07424-3130	ENGINEERING SERVICES		1909 CD	70167	4,979.00	9/10/2019	PENNONI ASSOCIATES INC.	SERV. THRU 8/11/19 2019 GEN.SERVICE	
07424-3130	ENGINEERING SERVICES		1910 CD	70669	3,400.75	10/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 9/15/19 2019 GEN.SERV	
07424-3140	BEGINNING BALANCE								
07424-3140	LEGAL SERVICES		1901 CD	66492	440.00	1/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. 12/7-12/28/18 GEN.AUTH.	
07424-3140	LEGAL SERVICES		1902 CD	66872	620.00	2/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 1/2-1/14/19 GEN.AUTH	
07424-3140	LEGAL SERVICES		1903 CD	67320	260.00	3/14/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICES - FEB.2019 GEN.AUTH.	
07424-3140	LEGAL SERVICES		1904 CD	67865	260.00	4/18/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE MARCH 2019 - GEN.AUTH	
07424-3140	LEGAL SERVICES		1905 CD	68309	400.00	5/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - 4/2019 GEN.SERVICE	
07424-3140	LEGAL SERVICES		1907 CD	69220	460.00	7/16/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 5/13/19	
07424-3140	LEGAL SERVICES		1907 CD	69311	260.00	7/22/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE 6/10/19 GEN.AUTHORITY	
07424-3140	LEGAL SERVICES		1908 CD	69674	220.00	8/13/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - JULY 2019 GEN.AUTH.	
07424-3140	LEGAL SERVICES		1909 CD	70167	440.00	9/10/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERVICE - AUG.2019 GEN. AUTH.	
07424-3140	LEGAL SERVICES		1910 CD	70669	660.00	10/15/2019	GAWTHROP GREENWOOD & HALSTED	LEGAL SERV. 9/9/19 - GEN.AUTHORITY	
07424-7440	BEGINNING BALANCE								
07424-7440	R.C. CAPITAL-STP		1901 CD	66492	11,830.72	1/15/2019	JWC ENVIRONMENTAL	SCREEN REPLACEMENT	
07424-7440	R.C. CAPITAL-STP		1905 CD	68357	1,972.50	5/20/2019	HORN PLUMBING & HEATING INC	50% DEPOSIT - MINI SPLIT HVAC UNIT	
07424-7440	R.C. CAPITAL-STP		1907 CD	69127	1,973.00	7/3/2019	HORN PLUMBING & HEATING INC	FINAL 50% MINI SPLIT HVAC UNIT	
07426-1000	BEGINNING BALANCE								
07426-1000	HERSHEY MILL STATION - EI		1901 CD	66492	301.50	1/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 12/30/18 HERSHEY MILL	GENERATOR REPLACE
07426-1000	HERSHEY MILL STATION - EI		1902 CD	66872	2,161.00	2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU: 1/27/19 H.M.GENERATOR	
07426-1000	HERSHEY MILL STATION - EI		1903 CD	67320	1,729.75	3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 HM GENERATOR	
07426-1000	HERSHEY MILL STATION - EI		1905 CD	68309	31.75	5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 HM GENERATOR	
07426-1000	HERSHEY MILL STATION - EI		1906 CD	68813	305.50	6/17/2019	PENNONI ASSOCIATES INC.	SERV. THRU 5/12/19 H.M. GENERATOR	



07426-1000	HERSHEY MILL STATION - EI	1907 CD	69220	456.75	7/16/2019	PENNONI ASSOCIATES INC.	SERV. THRU 6/17/19 - H.M.GENERATOR	DESIGN FOR GENERAT
07426-1000	HERSHEY MILL STATION - EI	1909 CD	70167	104.71	9/10/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 8/11/19 HMPS SURVEY &	DESIGN FOR GENERAT
07426-1000	HERSHEY MILL STATION - EI	1910 CD	70669	7,314.89	10/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 9/15/19 HMPS SURVEY &	DESIGN FOR GENERAT
07426-3000	BEGINNING BALANCE							
07426-3000	TALLMADGE DRIVE	1901 CD	66492	42,431.40	1/15/2019	IRON EAGLE EXCAVATING INC.	EXCAVATING - TALLMADGE DR. SEWER	REPLACEMENT
07426-3000	TALLMADGE DRIVE	1901 CD	66492	9,082.00	1/15/2019	PENNONI ASSOCIATES INC.	SERV.THUR 12/30/18 TALLMADGE DR.	
07426-3000	TALLMADGE DRIVE	1902 CD	66872	4,678.25	2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 TALLMADGE	
07426-3000	TALLMADGE DRIVE	1902 CD	66883	21,326.40	2/15/2019	IRON EAGLE EXCAVATING INC.	SANITARY SEWER BYPASS PUMPING & FLC CONTROL, FURNISH &	
07426-3000	TALLMADGE DRIVE	1903 CD	67320	2,949.25	3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 TALLMDG SEWER	
07426-3000	TALLMADGE DRIVE	1904 CD	67745	20,403.70	4/10/2019	IRON EAGLE EXCAVATING INC.	EXCAVATING - TALLMADGE DR. SEWER	REPLACEMENT
07426-3000	TALLMADGE DRIVE	1904 CD	67745	141.25	4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 TALLMADGE	SEWER
07426-3000	TALLMADGE DRIVE	1905 CD	68309	1,647.75	5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 TALLMADGE DR.	
07429-1501	BEGINNING BALANCE							
07429-1501	BARKWAY PUMP STATION (	1901 CD	66492	582.21	1/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 12/30/18 BARKWAY PS MV	
07429-1501	BARKWAY PUMP STATION (	1902 CD	66872	2,793.45	2/15/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 1/27/19 BARKWY MUF.MO	
07429-1501	BARKWAY PUMP STATION (	1903 CD	67320	2,386.13	3/14/2019	PENNONI ASSOCIATES INC.	SERVICE THRU 2/24/19 BARKWAY PS	
07429-1501	BARKWAY PUMP STATION (	1904 CD	67745	297.40	4/10/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 3/17/19 BARKWAY PS	MUFFIN MONSTER
07429-1501	BARKWAY PUMP STATION (	1905 CD	68309	519.52	5/15/2019	PENNONI ASSOCIATES INC.	SERVICES THRU 4/14/19 BARKWY PS MUF	
07429-1501	BARKWAY PUMP STATION (	1906 CD	68813	52,724.00	6/17/2019	IWC ENVIRONMENTAL	MUFFIN MONSTER	
07429-1505	BEGINNING BALANCE							
07429-1505	RCSTP CAPITAL	1907 CD	69220	877.25	7/16/2019	PENNONI ASSOCIATES INC.	SERV.THUR 6/17/19 - RCSTP GENERATOR	REPLACEMENT
07429-1505	RCSTP CAPITAL	1908 CD	69674	102.25	8/13/2019	PENNONI ASSOCIATES INC.	SERV.THUR 7/14/19 RCSTP GENERATOR	REPLACEMENT
07429-1505	RCSTP CAPITAL	1909 CD	70167	1,565.50	9/10/2019	PENNONI ASSOCIATES INC.	SERV. THRU 8/11/19 RCSTP GENERATOR	REPLACEMENT
07429-1505	RCSTP CAPITAL	1910 CD	70669	1,040.25	10/15/2019	PENNONI ASSOCIATES INC.	SERV. THRU 9/15/19 RCSTP GENERATOR	

EAST GOSHEN TOWNSHIP  
2020 Proposed Budget, Other Funds

Account Title	Acct #	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Adopted	2019 YE Proj	2020 Proposed	\$ Increase	% Increase
<b>MUNICIPAL AUTHORITY</b>										
<b>BEGINNING FUND BALANCE</b>					<b>142,331</b>	<b>26,213</b>	<b>26,213</b>	<b>37,792</b>		
REVENUE										
INTEREST EARNINGS	07341 1000	11	(28)	8	144.97	-	-	-	-	-
INTEREST EARNED - CONSTRUCTION	07341 1020	1,494	2,573	10,353	614	-	-	-	-	-
DCED GRANT	07354 0400	37,162	-	-		32,307	32,307	-	(32,307)	-100.0%
C.C. TAPPING FEES	07364 1100	27,600	6,000	8,000			2,000	-	(2,000)	-100.0%
R.C.TAPPING FEES	07364 1110	16,296	43,300	-	4,000		-	-	-	-
CONNECTION FEES - SEWER	07364 1130	1,269	1,128	1,128	1127.52		1,188		(1,188)	-100.0%
MISCELLANEOUS REVENUE	07380 1000	423	564	564	565		565	565	-	0.0%
TRANSFER FROM GENERAL ACCT	07392 0100	-	-	-	71		-	-	-	-
TRANSFER FROM SEWER OPERATING	07392 0500	40,000	77,000	185,000	122,000	311,118	255,000	314,435	59,435	23.3%
TRANSFER FROM SEWER CAP RESV	07392 0501					357,000	67,000	257,000	190,000	283.6%
<b>TOTAL REVENUE</b>		<b>124,255</b>	<b>130,537</b>	<b>205,053</b>	<b>128,522</b>	<b>700,425</b>	<b>358,060</b>	<b>572,000</b>	<b>571,903</b>	<b>445.0%</b>
<b>EXPENSES</b>										
ADMINISTRATIVE WAGES	07424 1400	32,303	30,166	30,896	33085.38	32,000	31,000	32,000	1,000	3.2%
MISCELLANEOUS EXPENSE	07424 3000	1,468	1,742	3,189	2317	2,382	2,382		(2,382)	-100.0%
MUNIC.AUTH--AUDITING	07424 3110	8,900	8,900	9,200	9400	9,663	9,663		(9,663)	-100.0%
ENGINEERING SERVICES	07424 3130	33,525	54,100	82,530	73406.96	70,000	60,000	60,000	-	0.0%
LEGAL SERVICES	07424 3140	4,100	8,593	14,438	4600	8,000	8,000	8,000	-	0.0%
RC CAPITAL	07424 7440						15,776		(15,776)	-100.0%
TALLMADGE DRIVE	07426 3000	-	-	-	19232.75		102,660		(102,660)	-100.0%
RESERVOIR PUMP STATION - ENGINEER	07428 1000	144,451	44,571	16,461	188		-	-	-	-
RELINING	07429 1500					130,000		-	-	-
BARKWAY PUMP STATION CAPITAL	07429 1501					67,000	67,000		(67,000)	-100.0%
ASHBRIDGE PUMP STATION CAPITAL	07429 1502						-		-	-
HERSHEYS MILL PUMP STATION CAPITAL	07429 1503					125,000	40,000	45,000	5,000	12.5%
HUNT CO PUMP STATION CAPITAL	07429 1504					87,000	-	87,000	87,000	
RCSTP CAPITAL	07429 1501					169,500	10,000	345,000	335,000	3350.0%
WEST GOSHEN CAPITAL	07429 6100	-	-	1,265,670	102,339		-	-	-	-
M.C.-DVRFA-DEBT SERVICE	07471 1000	23,240	24,921	54,040			-	-	-	-
M.A.-R.C. DEBT SERVICE	07471 1010	-	-	1,948			-	-	-	-
M.C.-DVRFA-INTEREST PAYM	07472 1000	4,169	3,171	-			-	-	-	-
TRANSFER TO GENERAL FUND	07492 0100	-	-	-	71.3		-	-	-	-

EAST GOSHEN TOWNSHIP  
2020 Proposed Budget, Other Funds

Account Title	Acct #	2015 Actual	2016 Actual	2017 Actual	2018 Actual	2019 Adopted	2019 YE Proj	2020 Proposed	\$ Increase	% Increase
TOTAL EXPENSES		252,156	176,163	1,478,372	244,640	700,545	346,481	577,000	230,519	66.5%
NET RESULT FROM OPERATIONS		(127,900)	(45,626)	(1,273,319)	(116,118)	(120)	11,579	(5,000)		
ENDING FUND BALANCE					26,213	26,093	37,792	32,792		

# 2020-2024 Capital Improvement Program



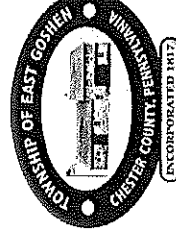
## Sewer & Municipal Authority

(Except West Goshen Upgrades)

Category	2020	2021	2022	2023	2024
Hershey's Mill P/S Generator (R)	\$45,000	-	-		
Hunt Country P/S Mag Meter (R)	\$15,000	-	-		
Hunt Country P/S Muffin Monster (R)	\$67,000				
Ridley Creek STP Generator (R)	\$130,000				
Relining AC sewer lines and brick man holes (N)	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000
Hunt Country P/S Bypass Pump (N)	\$5,000				
Ridley Creek STP Flow Meter (R)				\$13,000	
Ridley Creek Collection Flow Meter (N)	\$55,000	\$30,000			
Ridley Creek Caustic Soda Project (N)	\$160,000				
Ridley Creek Filter Feed Pump (R)		\$18,000			
Ridley Creek Lift Station Replacement (R)			\$20,000	\$20,000	
Ridley Creek SBR Tank Lining (N)		\$61,000	\$61,000	\$61,000	\$61,000
<b>Total Sewer Capital</b>	<b>\$607,000</b>	<b>\$239,000</b>	<b>\$211,000</b>	<b>\$224,000</b>	<b>\$191,000</b>
Total New	\$257,000	\$221,000	\$191,000	\$191,000	\$191,000
Total Replacement	\$350,000	\$18,000	\$20,000	\$33,000	

(R=replacement; N=new)

11/12/19



# 2020-2024 Capital Improvement Program



## Sewer & Municipal Authority

(Except West Goshen Upgrades)

### Justification for New Assets

- **Relining brick manholes and asbestos cement sewer lines** was identified four years ago as a long term maintenance priority for pre-mid-1970s sewer assets, which are at the end of their useful life. The plan calls for Supplee Valley in 2020-2021, Waterview in 2022-2023 and either Grand Oak or the eastern portion of Hershey's Mill Estates in 2024
- **Three new collection system flow meters** will allow us to measure I&I in that system and more effectively identify problems in the collections system. Currently, the only RC flow meters are at the plant. Two meters would be installed in 2020 and one would be installed in 2021.
- **Sequence Batch Reactor Tank Lining** (4 total, 2021-2024) project reflects recoating hairline fractures in tanks from water line to top of tanks.
- **Ridley Creek Caustic Soda project** would improve worker safety and efficiency at the plant. Currently, caustic soda is manually poured into tanks. We are identifying potential grant opportunities for this project through DCED.
- **Hunt Country Pump Station Bypass Pump Connection** needed to allow for bypass pumping.



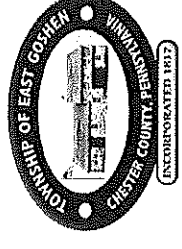
# 2020-2024 Capital Improvement Program



## Upgrades at West Goshen STP East Goshen Municipal Authority's Share Only

Category	2020	2021	2022	2023	2024
Westtown Way P/S Improvements	\$1,096,000				
Misc Capital, Engineering, Legal and Admin Fees	\$26,143				
<b>Total EGMA share of WGSA projects</b>	<b>\$1,122,143</b>				
Series 2017 Bond Proceeds	\$701,905				
Sewer Capital Reserve Fund	\$420,238				

- The final request for the West Goshen Sanitary Sewer Improvements is expected in May 2020.



11/12/19

**Authorized Official Resolution**  
**East Goshen Municipal Authority**  
**2019 PA Small Water & Sewer Grant Application**

Be it RESOLVED, that the East Goshen Municipal Authority of Chester County hereby request an PA Small Water and Sewer Program grant of \$136,000 from the Commonwealth Financing Authority to be used for the Caustic Soda project.

Be it FURTHER RESOLVED, that the Applicant does hereby designate Jon Altshul, Assistant Township Manager, and Louis F. Smith, Township Manager, as the officials to execute all documents and agreements between the East Goshen Municipal Authority and the Commonwealth Financing Authority to facilitate and assist in obtaining the requested grant.

I, Dana Pizarro, duly qualified Secretary of the East Goshen Municipal Authority, Chester County, PA, hereby certify that the forgoing is a true and correct copy of a Resolution duly adopted by a majority vote of the Municipal Authority at a regular meeting held on November 4, 2019 and said Resolution has been recorded in the Minutes of the East Goshen Municipal Authority and remains in effect as of this date.

IN WITNESS THEREOF, I affix my hand and attach the seal of the East Goshen Municipal Authority this 4<sup>th</sup> day of November, 2019.

\_\_\_\_\_  
Name of Applicant

\_\_\_\_\_  
County

\_\_\_\_\_  
Secretary

## **Section I – Statement of Purpose**

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The PA Small Water and Sewer Program was established pursuant to § 1774.1-A of the Act of April 25, 2016 (P.L.\_\_\_\_, No. 25)(72 P.S. §1741-A.1 et. seq.), as amended, and authorizes the Commonwealth Financing Authority to award grants to municipalities and municipal authorities for water, sewer, storm water and flood control projects with a cost of not less than \$30,000 and not more than \$500,000.

## **Section II – Eligibility**

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### **A. Eligible Applicants**

Any of the following entities who will own the proposed project are eligible to apply for a grant.

1. **A Municipality** includes any city, township, borough, town, county, or home rule
2. **A Municipal Authority** includes any authority created by a municipality pursuant to the act known as the "Municipal Authorities Act"

### **B. Eligible Projects**

Eligible projects are those which have a total project cost of not less than \$30,000 and not more than \$500,000 and involve the construction, improvement, expansion, repair, or rehabilitation of a water supply system, sanitary sewer system, storm sewer system, or flood control projects that are owned and maintained by an eligible applicant. An eligible project also includes consolidation or regionalization of two or more water supply systems or sanitary sewer systems which are managed or operated as an integrated system regardless of whether the system is physically connected.

### **C. Eligible Use of Funds**

Funds may be used by the applicant to pay for any of the following project costs:

1. Construction, improvement, expansion, repair, or rehabilitation of a water supply system, sanitary sewer system, storm sewer system, or flood control projects.
2. Installation of security measures.
3. Acquisition of land, rights-of-way and easements necessary to construct an eligible project.
4. Purchase and installation of fixed equipment.
5. Engineering and design costs not to exceed 10% of the grant amount.
6. Inspection costs related to the construction of an eligible project.
7. Permit Fees.
8. Costs to secure appropriate bonds and insurance.
9. Administrative costs of the applicant that are necessary to administer the grant. Administrative costs include advertising and, legal costs as well as documented staff expenses. Administrative costs shall not exceed 2% of the grant and any amount over 2% cannot be included as match for this program.
10. Project contingencies associated with construction costs are limited to 5% of the eligible construction costs. No other contingencies shall be included as eligible project costs.

Ineligible costs include but are not limited to fees for securing other financing, interest on borrowed funds, refinancing of existing debt, lobbying, fines, application preparation fees, tap in fees, and costs incurred prior to approval.



## Section III – Program Requirements

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### A. Matching Fund Requirement

An eligible applicant shall provide matching funds of not less than 15% of the total eligible project cost. The cash match may come from any other source including PENNVEST.

### B. Planning Approvals

All recipients of funding are required to demonstrate in the application that the project complies with regional, county and local comprehensive plans as evidenced by a letter from the appropriate local planning agency. If inconsistencies between plans exist, preference will be given to the approved county-level plans.

### C. Other Requirements

#### 1. Conflicts of Interest

An officer, director, or employee of an applicant who is a party to or who has a private interest in a project shall disclose the nature and extent of the interest to the governing body of the applicant and may not vote on any action of the applicant concerning the project nor participate in the deliberations of the applicant concerning the project.

#### 2. Nondiscrimination

No assistance shall be awarded to an applicant under this program unless the applicant and project user, if applicable, certify to the Authority that the applicant and project user, if applicable, shall not discriminate against any employee or against any person seeking employment by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the Pennsylvania Human Relations Act, which prohibits discrimination on the basis of race, color, religious creed, ancestry, age, sex, national origin, handicap or disability, or in violation of any applicable federal laws. All contracts for work to be paid with assistance must contain the commonwealth's official nondiscrimination clause.

#### 3. Project Records

The applicant must maintain full and accurate records with respect to the project and must ensure adequate control over related parties in the project. The Authority requires access to such records, as well as the ability to inspect all work, invoices, materials, and other relevant records at reasonable times and places. Upon request of the Authority, the applicant must furnish all data, reports, contracts, documents, and other information relevant to the project.

#### 4. Pennsylvania Prevailing Wage Act

All the construction work associated with the project may be subject to the Pennsylvania Prevailing Wage Act, as determined by the Pennsylvania Department of Labor and Industry.

#### 5. Certification of Expenses

The applicant shall sign a payment request form certifying that the expenses were incurred and were in accordance with the scope of work approved by the CFA. In lieu of a formal project audit and prior to final closeout of the grant agreement, the applicant shall be required to submit copies of all canceled checks verifying the expenditure of the PA Small Water and Sewer Program proceeds. Bank statements may also be submitted if electronic payment of the expenditure occurred.

**6. Bidding Requirements**

Applicants must comply with all applicable federal, state, and local laws and regulations dealing with bidding and procurement.

**7. Guideline Provisions**

The PA Small Water and Sewer Program guidelines provisions may be modified or waived by the Authority unless otherwise required by law.

**D. Fees**

The Commonwealth Financing Authority charges a \$100 non-refundable application fee for PA Small Water and Sewer Program applications. The application fee must be paid electronically by credit or debit card or electronic check through our secure, third-party vendor. Payment of the application fee must be completed prior to the certification and submission of the Electronic Single Application. Detailed payment instructions will be provided on the Certification Tab of the Electronic Single Application once all required fields have been completed.

## **Section IV – Grants**

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1. Grants are available for projects with a total cost of not less than \$30,000 and not more than \$500,000.
2. To be eligible for reimbursement, project costs must be incurred within the time frame established by the grant agreement.

## **Section V – Application Procedures**

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1. To apply for funding, the applicant must submit the electronic on-line Department of Community and Economic Development Single Application for Assistance located at [www.esa.dced.state.pa.us](http://www.esa.dced.state.pa.us). Required supplemental information outlined in Appendix I of these guidelines must be attached electronically to the application as directed on the Addenda tab. For technical inquiries regarding the submission of the on-line application, contact the Customer Service Center at (800) 379-7448 or (717) 787-3405.

Once submitted, please print one (1) copy of the application, and send with the required supplemental information, and mail to:

PA Department of Community and Economic Development  
CFA Programs Division  
PA Small Water & Sewer Program  
Commonwealth Keystone Building  
400 North Street, 4th Floor  
Harrisburg, PA 17120-0225

Please reference the application ID number on any documents sent with the signature page.

2. Applications will be accepted between September 18, 2019 and December 13, 2019. All applications and required supplemental information must be electronically submitted by the close of business on December 13, 2019.

## **Section VI – Application Evaluation**

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All applications for financial assistance will be reviewed by the Authority to determine eligibility and competitiveness of the proposed project using the following criteria:

1. Project readiness.
2. Project is consistent with all local, state and regional comprehensive, regional resource management or economic development plans.
3. The cost-effectiveness of the proposed project when compared to other alternatives.
4. Whether the construction or repair [or consolidation] of a water or sewer project will enable customers of the system or regional system to be more efficiently served.
5. Whether the project serves existing populations or whether the project is intended to serve new development.
6. Whether the project will result in a substantiated positive economic development impact as evidenced by job creation and private investment.
7. The ability of the applicant to secure funding for the project.
8. The proactive implementation of practices to promote sustainability of the system such as asset management, water conservation, energy efficiency, and the use of nonstructural alternatives to minimize the amount of storm water that infiltrates into a system.

## **Section VII – Procedures for Accessing Funds**

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Upon approval of an application by the CFA, a grant agreement and commitment letter will be electronically issued to the applicant explaining the terms and conditions of the grant. The Grantee must provide the names, titles and e-mail addresses for two authorized individuals to receive and electronically sign the grant agreement. The grant agreement must be electronically signed and returned to the CFA within 45 days of the date of the commitment letter or the offer may be withdrawn by the CFA.

## Appendix I – Supplemental Information

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### PA Small Water and Sewer Program

In addition to completing the Department's Single Application for Assistance, please include the following items when applying for a grant under the PA Small Water and Sewer Program:

#### **Exhibit 1: Project Description**

For Water, Sewer, and Storm Sewer Projects provide a description of the project which discusses all of the following: (a) a detailed project description; (b) the specific location of the project area; (c) whether the project will result in a substantiated positive economic development impact; (d) the estimated start and end dates of construction; (e) the names of the municipalities that will potentially benefit from the project; (f) how the project promotes the most efficient management of water resources and protects the health and safety of the citizens of the commonwealth; (g) the sound management practices implemented by the applicant in the past five years to enhance the long-term sustainability of the system including but not limited to energy efficiency improvements, water conservation, full cost pricing, asset management, and the installation of non-structural alternatives to minimize the amount of storm water that infiltrates the system; (h) whether the project serves existing populations or new development.

#### **For Flood Control Projects:**

**Construction Projects:** Provide a description of the project which discusses all of the following: (a) a detailed description of the problem area along with a flood inundation map outlining the extent of the flood area; (b) the number and name of the municipalities that will potentially benefit from the project; (c) a detailed breakdown of the number of structures (homes, businesses, and industrial sites) that have experienced flood damage to include the number of times the structures have been flooded, the type and depth of flooding (basement or first floor), and the amount of damage sustained per flood event; (d) events such as the 2-year, 5-year, 10-year, 25-year, 50-year, 100-year, 500-year; and a discussion on which hydrologic methods were considered and why the recommended discharges were selected; (e) an updated cross-sectional survey of the waterway and floodplain; (f) a simulated computer model using the U.S. Army Corps of Engineer's Hydrologic Engineering Center's River Analysis System (the cost effectiveness, annual maintenance (ease of and cost), and constructability of the project; (g) preliminary construction drawings showing the features of the recommended project; (h) a preliminary rights-of-way acquisition plan showing types and limits of easements needed to construct and maintain the project; and (i) an annotated sketch that shows how the project will impact (change) the flood plain limits shown on the current FEMA Flood Insurance Mapping.

**Levee Certification/HEC-RAS Projects:** Provide narrative description of the project and an engineering feasibility study conducted by a registered professional engineer that includes the following information: (a) a detailed description of the project including the specific location of the project site; (b) a detailed description of the problem area along with a flood inundation map outlining the extent of the flood area; (c) the number and name of the municipalities that will potentially benefit from the project.

#### **Exhibit 2: Ownership Letter**

A letter stating the project will be owned and maintained by an eligible applicant.

#### **Exhibit 3: Cost Estimate**

A detailed estimate for the total project cost. The estimate must be prepared, signed, and dated by an engineer or other qualified professional and should be accompanied where appropriate by copies of the signed bid/quotations, contractor estimates, sales agreements or other documentation that verify project cost estimates.

**Exhibit 4: Matching Funds Commitment**

Provide funding commitment letters from all other project funding sources (including equity commitments).

- Funding commitments or term sheets provided by lending institutions must include the term, rate, and collateral conditions, and must be signed and dated.
- Funding commitments of equity from the applicant or private third party must be signed and dated (indicating the amount of funds being committed) and be accompanied by documentation (such as audited financial statements) showing the ability to commit such funds.

**Exhibit 5: Flood Construction Documents**

For flood construction projects, please provide the following:

- A set of construction drawings showing project details including but not limited to plans, profiles, payment sections, structural details, erosion and sedimentation control plan, miscellaneous details, and traffic control plan.
- A complete set of technical specifications addressing each construction item; these specifications, if applicable, should adhere to guidelines specified in the following: PennDOT 408 manual and ACI, ASTM, and AASHTO specifications.
- Copies of land acquisition drawings showing property boundaries and the various property easements (both temporary and permanent) required to construct the project.

**Exhibit 6: Color-Coded Map**

A color-coded map detailing the location of the infrastructure or where the project will be conducted.

**Exhibit 7: Planning Letter**

A letter from the appropriate planning agency certifying that the proposed project complies with the comprehensive land use plans.

**Exhibit 8: Resolution**

Provide a resolution duly adopted by the applicant's governing board formally requesting the grant, designating an official to execute all documents, describing briefly the project scope, and identifying the grant amount. (See Appendix II for a Sample Resolution).

**Exhibit 9: Permits**

A list of all Local, State and Federal planning approvals and permits from the appropriate agencies.

Send one copy of completed application with all supplemental information and attachments to:

PA Department of Community and Economic Development  
CFA Programs Division  
PA Small Water and Sewer Program  
Commonwealth Keystone Building  
400 North Street, 4th Floor  
Harrisburg, PA 17120-0225

If you have any questions on completing the application, please call the CFA Programs Division at (717) 787-6245.

**Subject:** Grants Now Available for Water & Sewer Projects – Apply Today ●

Funding covers municipal waste, sewer, and flood control projects.

KEEP  
ON  
FOR 2/17  
M76



## Grants Available for Water and Sewer Projects

Is your community looking for funding for your next municipal water, sewer, or flood control infrastructure project? The [H2O PA](#) and the [PA Small Water and](#)

[Sewer program](#) grant programs are accepting applications from municipalities and municipal authorities now through **Dec. 13, 2019**.

### H2O PA

There are three H2O PA grant programs for various water-related infrastructure projects. Grant awards are between \$500,000 and \$20 million per project, and applicants must show matching funds.

- [Flood Control](#)
- [High Hazard Dams and Unsafe Dams](#)
- [Water Supply, Sanitary Sewer, and Storm Water Projects](#)

### PA Small Water and Sewer

New this year, the [PA Small Water and Sewer program](#) now includes storm sewer and flood control projects, in addition to the program's traditional small water and sewer projects. Grant awards are between \$30,000 and \$500,000 per project, and applicants must show 15% in matching funds.

## Questions?

Contact the Site Development Office at 717.787.6245 or by **email**.



Department of Community & Economic Development | [dced.pa.gov](http://dced.pa.gov)

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Gawthrop Greenwood, PC  
*Attorneys at Law*

17 East Gay Street, Suite 100, P.O. Box 562 p. 610.696.8225  
West Chester, PA 19381-0562 www.gawthrop.com



**Patrick M. McKenna**  
610.696.8225 x 155  
610.344.0922 fax  
pmckenna@gawthrop.com

October 18, 2019

Louis F. Smith, Jr., Manager  
East Goshen Township  
1580 Paoli Pike  
West Chester, PA 19380-6199

**Re: 2020 Fees For Legal Services**

Dear Rick:

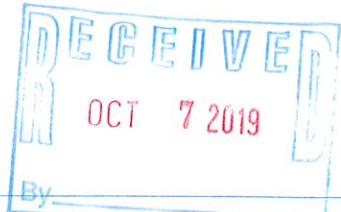
Please be advised that for 2020, Gawthrop Greenwood has no plans to change the rates or the terms of engagement under which we currently service East Goshen Municipal Authority.

The firm is pleased to have the continuing opportunity to provide legal services to the Municipal Authority in 2020 at our current rate of \$200 per hour. I highly value our long-standing relationship with East Goshen Township and its officials and staff. I would expect that for purposes of budgeting you would be safe in assuming that our experience in 2020 will be similar to the amount of work we did in 2019.

Very truly yours,

  
Patrick M. McKenna





**PMAA REGION 1 DINNER MEETING**

**Date & Time:** **Thursday, November 14, 2019**  
6:30 pm Cocktails & Hors d'oeuvres  
7:30 pm Dinner

**Location:** **Presidential Caterers of Distinction**  
2910 DeKalb Pike (Route 202)  
East Norriton, PA 19401-1596

**Price:** \$50.00 per person

**Topics:** **Update on Legislative Issues Affecting Authorities**  
PMAA Staff

**PFAS Issues Update - Region 1**  
Tim Hagey, Warminster Township Municipal Authority

**Upcoming Region 1 Training Program**  
**"How to Attract & Retain High Quality Employees"**  
John Schmidt – Chalfont- New Britain Township Joint Sewer Authority  
Shannon Drosnock, Montgomery Township Sewer Authority

**Water and Sewer Intern Program - Discussion**  
Michael Sullivan, Warwick Township Water And Sewer Authority.

**RSVP:** Wednesday, November 6, 2019

**Menu:** Buffet including Organic Mixed Greens, Carving Display of Roast Beef, Roasted Chicken Saltimbocca, Grilled Mahi Mahi, Pasta Primavera and Chocolate Mousse

**Please return your reservation form with payment to:**

North Wales Water Authority, P.O. Box 1339, North Wales PA 19454

Attn: Ritajean Joyce, NWWA Executive Assistant

**PLEASE MAKE ALL CHECKS PAYABLE TO "PMAA REGION 1"**

For additional information or assistance please contact Ritajean Joyce at (215)-699-2378 x 147

or you may contact us by email at: [rjoyce@nwwater.com](mailto:rjoyce@nwwater.com)

Authority (or Company) Name: \_\_\_\_\_

Guests Attending:

_____	_____
_____	_____
_____	_____

**Deadline for reservations: Wednesday, November 6, 2019**

*We are working to expand our programs to include everyone! We hope to see you there.*  
*Bob Bandy*

**FYI**